

Atty. Docket No. 29610/CDT322A

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POWER OF ATTORNEY: I hereby appoint as my attorneys, with full powers of substitution and revocation, to prosecute this application and transact all business in the Patent and Trademark Office connected therewith:

All practitioners at Customer Number 04743

Send correspondence to: James P. Zeller

FIRM NAME	PHONE NO.	STREET	CITY & STATE	ZIP CODE
Marshall, Gerstein & Borus LLP	312-474-6300	6300 Sears Tower 233 South Wacker Drive	Chicago, Illinois	60606-6357

1-00

Full Name of First or Sole Inventor <b>Craig Edward Murphy</b>	Citizenship <b>Great Britain</b>
Residence Address - Street <b>14 Kirkby Close</b>	Post Office Address - Street <b>14 Kirkby Close</b>
City (Zip) <b>Cambridge CB4 1XP</b> <i>CBX</i>	City (Zip) <b>Cambridge CB4 1XP</b>
State or Country <b>United Kingdom</b>	State or Country <b>United Kingdom</b>
Date <b>20th September 2005</b>	Signature <i>Craig Murphy</i>

Second Joint Inventor, if any <b>Salvatore Cina</b>	Citizenship <b>Italy</b>
Residence Address - Street <b>29 Av. Janvier</b>	Post Office Address - Street <b>29 Av. Janvier</b>
City (Zip) <b>35000 Rennes</b>	City (Zip) <b>35000 Rennes</b>
State or Country <b>France</b>	State or Country <b>France</b>
Date <input checked="" type="checkbox"/>	Signature <input checked="" type="checkbox"/>

Third Joint Inventor, if any <b>Timothy Butler</b>	Citizenship <b>Great Britain</b>
Residence Address - Street <b>5 Grange Gardens, Grange Road</b>	Post Office Address - Street <b>5 Grange Gardens, Grange Road</b>
City (Zip) <b>Cambridge CB3 9AT</b>	City (Zip) <b>Cambridge CB3 9AT</b>
State or Country <b>United Kingdom</b>	State or Country <b>United Kingdom</b>
Date <input checked="" type="checkbox"/>	Signature <input checked="" type="checkbox"/>

4-00

Fourth Joint Inventor, if any <b>Matthew Roberts</b>	Citizenship <b>Great Britain</b>
Residence Address - Street <b>107 Station Road, Impington</b>	Post Office Address - Street <b>107 Station Road, Impington</b>
City (Zip) <b>Cambridge, CB4 9NP</b> <i>CBX</i>	City (Zip) <b>Cambridge, CB4 9NP</b>
State or Country <b>United Kingdom</b>	State or Country <b>United Kingdom</b>
Date <b>21st September 2005</b>	Signature <i>Matthew Roberts</i>

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5-00

Fifth Joint Inventor, if any <b>Nalin Kumar Lalubhai Patel</b>	Citizenship <b>Great Britain</b>
Residence Address - Street <b>82 Mill Lane, Impington</b>	Post Office Address - Street <b>82 Mill Lane, Impington</b>
City (Zip) <b>Cambridge CB4 9HS</b> <b>GBX</b>	City (Zip) <b>Cambridge CB4 9HS</b>
State or Country <b>United Kingdom</b>	State or Country <b>United Kingdom</b>
Date <input checked="" type="checkbox"/> <b>16th September 2005</b>	Signature <input checked="" type="checkbox"/> <b>N. Patel</b>

6-00

Sixth Joint Inventor, if any <b>Clare Louise Foden</b>	Citizenship <b>Great Britain</b>
Residence Address - Street <b>10 George Street</b>	Post Office Address - Street <b>10 George Street</b>
City (Zip) <b>Cambridge CB4 1AJ</b> <b>GBX</b>	City (Zip) <b>Cambridge CB4 1AJ</b>
State or Country <b>United Kingdom</b>	State or Country <b>United Kingdom</b>
Date <input checked="" type="checkbox"/> <b>30th August 2005</b>	Signature <input checked="" type="checkbox"/> <b>Clare L. Foden</b>

Seventh Joint Inventor, if any <b>Mark Levene Leadbeater</b>	Citizenship <b>Great Britain</b>
Residence Address - Street <b>127 Town Street, Newton</b>	Post Office Address - Street <b>127 Town Street, Newton</b>
City (Zip) <b>Cambridge CB2 5PE</b>	City (Zip) <b>Cambridge CB2 5PE</b>
State or Country <b>United Kingdom</b>	State or Country <b>United Kingdom</b>
Date <input checked="" type="checkbox"/>	Signature <input checked="" type="checkbox"/>

8-00

Eighth Joint Inventor, if any <b>Daniel Alan Forsythe</b>	Citizenship <b>Great Britain</b>
Residence Address - Street <b>22 St. Lukes Street</b>	Post Office Address - Street <b>22 St. Lukes Street</b>
City (Zip) <b>Cambridge CB4 3DA</b> <b>GBX</b>	City (Zip) <b>Cambridge CB4 3DA</b>
State or Country <b>United Kingdom</b>	State or Country <b>United Kingdom</b>
Date <input checked="" type="checkbox"/> <b>21/9/05</b>	Signature <input checked="" type="checkbox"/> <b>D. Forsythe</b>

9-00

Ninth Joint Inventor, if any <b>Robert Sidney Archer</b>	Citizenship <b>Great Britain</b>
Residence Address - Street <b>20 Whiteshot Way, Saffron Walden</b>	Post Office Address - Street <b>20 Whiteshot Way, Saffron Walden</b>
City (Zip) <b>Essex CB10 2AW</b> <b>GBX</b>	City (Zip) <b>Essex CB10 2AW</b>
State or Country <b>United Kingdom</b>	State or Country <b>United Kingdom</b>
Date <input checked="" type="checkbox"/> <b>16th SEPTEMBER 2005</b>	Signature <input checked="" type="checkbox"/> <b>R. Archer</b>

Tenth Joint Inventor, if any <b>Nicholas de Brissac Baynes</b>	Citizenship <b>Great Britain</b>
Residence Address - Street <b>2, The Beaches, High St., Stetchworth</b>	Post Office Address - Street <b>2, The Beaches, High St., Stetchworth</b>
City (Zip) <b>Newmarket CB8 9TJ</b>	City (Zip) <b>Newmarket CB8 9TJ</b>
State or Country <b>United Kingdom</b>	State or Country <b>United Kingdom</b>
Date <input checked="" type="checkbox"/>	Signature <input checked="" type="checkbox"/>

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11-06

Eleventh Joint Inventor, if any <u>Nathan Luke Phillips</u>	Citizenship <u>Great Britain</u>
Residence Address - Street <u>12 Priory Road</u>	Post Office Address - Street <u>12 Priory Road</u>
City (Zip) <u>Cambridge CB5 8HT</u> <u>GBX</u>	City (Zip) <u>Cambridge CB5 8HT</u>
State or Country <u>United Kingdom</u>	State or Country <u>United Kingdom</u>
Date <input checked="" type="checkbox"/> <u>16th September 2005</u>	Signature <input checked="" type="checkbox"/> <u>N L Phillips</u>

Twelfth Joint Inventor, if any <u>Anil Raj Duggal</u>	Citizenship <u>United States</u>
Residence Address - Street <u>2322 Algonquin Road</u>	Post Office Address - Street <u>2322 Algonquin Road</u>
City (Zip) <u>Niskayuna 12309</u>	City (Zip) <u>Niskayuna 12309</u>
State or Country <u>New York</u>	State or Country <u>New York</u>
Date <input checked="" type="checkbox"/>	Signature <input checked="" type="checkbox"/>

Thirteenth Joint Inventor, if any <u>Jie Lin</u>	Citizenship <u>United States</u>
Residence Address - Street <u>1265 Sagamont Court</u>	Post Office Address - Street <u>1265 Sagamont Court</u>
City (Zip) <u>Niskayuna 12309</u>	City (Zip) <u>Niskayuna 12309</u>
State or Country <u>New York</u>	State or Country <u>New York</u>
Date <input checked="" type="checkbox"/>	Signature <input checked="" type="checkbox"/>

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**APPLICABLE RULES AND STATUTES****37 CFR 1.56. DUTY OF DISCLOSURE - INFORMATION MATERIAL TO PATENTABILITY (Applicable Portion)**

(a) A patent by its very nature is affected with a public interest. The public interest is best served, and the most effective patent examination occurs when, at the time an application is being examined, the Office is aware of and evaluates the teachings of all information material to patentability. Each individual associated with the filing and prosecution of a patent application has a duty of candor and good faith in dealing with the Office, which includes a duty to disclose to the Office all information known to that individual to be material to patentability as defined in this section. The duty to disclose information exists with respect to each pending claim until the claim is canceled or withdrawn from consideration, or the application becomes abandoned. Information material to the patentability of a claim that is canceled or withdrawn from consideration need not be submitted if the information is not material to the patentability of any claim remaining under consideration in the application. There is no duty to submit information which is not material to the patentability of any existing claim. The duty to disclose all information known to be material to patentability is deemed to be satisfied if all information known to be material to patentability of any claim issued in a patent was cited by the Office or submitted to the Office in the manner prescribed by §§ 1.97(b)-(d) and 1.98. However, no patent will be granted on an application in connection with which fraud on the Office was practiced or attempted or the duty of disclosure was violated through bad faith or intentional misconduct. The Office encourages applicants to carefully examine:

- (1) prior art cited in search reports of a foreign patent office in a counterpart application, and
- (2) the closest information over which individuals associated with the filing or prosecution of a patent application believe any pending claim patentability defines, to make sure that any material information contained therein is disclosed to the Office.

Information relating to the following factual situations enumerated in 35 USC 102 and 103 may be considered material under 37 CFR 1.56(a).

**35 U.S.C. 102. CONDITIONS FOR PATENTABILITY: NOVELTY AND LOSS OF RIGHT TO PATENT**

A person shall be entitled to a patent unless —

- (a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for patent, or
- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of the application for patent in the United States, or
- (c) he has abandoned the invention, or
- (d) the invention was first patented or caused to be patented, or was the subject of an inventor's certificate, by the applicant or his legal representatives or assigns in a foreign country prior to the date of the application for patent in this country on an application for patent or inventor's certificate filed more than twelve months before the filing of the application in the United States, or
- (e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraph (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent, or
- (f) he did not himself invent the subject matter sought to be patented, or
- (g) before the applicant's invention thereof the invention was made in this country by another who had not abandoned, suppressed, or concealed it. In determining priority of invention there shall be considered not only the respective dates of conception and reduction to practice of the invention, but also the reasonable diligence of one who was first to conceive and last to reduce to practice, from a time prior to conception by the other.

**35 U.S.C. 103. CONDITIONS FOR PATENTABILITY; NON-OBVIOUS SUBJECT MATTER (Applicable Portion)**

A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Subject matter developed by another person, which qualifies as prior art only under subsection (f) or (g) of section 102 of this title, shall not preclude patentability under this section where the subject matter and the claimed invention were, at the time the invention was made, owned by the same person or subject to an obligation of assignment to the same person.

**35 U.S.C. 112. SPECIFICATION (Applicable Portion)**

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same, and shall set forth the best mode contemplated by the inventor of carrying out his invention.

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10/526804

## DECLARATION FOR PATENT APPLICATION AND POWER OF ATTORNEY

As a below named inventor, I hereby declare that my residence, post office address and citizenship are as stated below next to my name; I believe that I am an original, first and joint inventor of the subject matter which is claimed and for which a patent is sought on the invention entitled "OPTICAL DEVICE," the specification of which was filed on September 3, 2003, as International Application No. PCT/GB2003/003960 (U.S. Serial No. 10/526,804), and was amended on March 3, 2005. I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above. I acknowledge the duty to disclose to the Patent and Trademark Office all information known to me to be material to patentability as defined in 37 C.F.R. §1.56.

I hereby claim foreign priority benefits under 35 U.S.C. §119 of any foreign application for patent or inventor's certificate or of any international application designating at least one country other than the United States of America listed below and have also identified below any foreign application for patent or inventor's certificate or any international application designating at least one country other than the United States of America filed by me on the same subject matter having a filing date before that of the application of which priority is claimed:

Priority Claimed

0220404.8  
(Application Serial Number)

United Kingdom  
(Country)

September 3, 2002  
(Day/Month/Year Filed)

☒ Yes ☐ No

I hereby claim the benefit under 35 U.S.C. §119(e) of any United States provisional application(s) listed below:

60/480,502  
(Application Serial Number)

20 June 2003  
(Day/Month/Year Filed)

I hereby claim the benefit under 35 U.S.C. §120 of any United States application or international application designating the United States of America listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior application in the manner provided by the first paragraph of 35 U.S.C. §112, I acknowledge the duty to disclose to the Office all information known to me to be material to patentability as defined in 37 C.F.R. §1.56 which occurred between the filing date of the prior application and the national or international filing date of this application:

\_\_\_\_\_  
(Application Serial Number)

\_\_\_\_\_  
(Day/Month/Year Filed)

\_\_\_\_\_  
(Status-Patented, Pending or Abandoned)

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under 18 U.S.C. §1001 and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

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**POWER OF ATTORNEY:** I hereby appoint as my attorneys, with full powers of substitution and revocation, to prosecute this application and transact all business in the Patent and Trademark Office connected therewith:

All practitioners at Customer Number 04743

Send correspondence to: James P. Zeller

<b>FIRM NAME</b>	<b>PHONE NO.</b>	<b>STREET</b>	<b>CITY &amp; STATE</b>	<b>ZIP CODE</b>
Marshall, Gerswein & Bocun LLP	312-474-6300	6300 Sears Tower 233 South Wacker Drive	Chicago, Illinois	60606-6357

Full Name of First or Sole Inventor <b>Craig Edward Murphy</b>	Citizenship <b>Great Britain</b>
Residence Address - Street <b>14 Kirkby Close</b>	Post Office Address - Street <b>14 Kirkby Close</b>
City (Zip) <b>Cambridge CB4 1XP</b>	City (Zip) <b>Cambridge CB4 1XP</b>
State or Country <b>United Kingdom</b>	State or Country <b>United Kingdom</b>
Date <input checked="" type="checkbox"/>	Signature <input checked="" type="checkbox"/>

2.00

Second Joint Inventor, if any <b>Salvatore Cina</b>	Citizenship <b>Italy</b>
Residence Address - Street <b>29 Av. Janvier</b>	Post Office Address - Street <b>29 Av. Janvier</b>
City (Zip) <b>35000 Rennes</b>	City (Zip) <b>35000 Rennes</b>
State or Country <b>France</b>	State or Country <b>France</b>
Date <input checked="" type="checkbox"/> 18 - Sept - 2005	Signature <input checked="" type="checkbox"/>

FRX

Third Joint Inventor, if any <b>Timothy Butler</b>	Citizenship <b>Great Britain</b>
Residence Address - Street <b>5 Grange Gardens, Grange Road</b>	Post Office Address - Street <b>5 Grange Gardens, Grange Road</b>
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State or Country <b>United Kingdom</b>	State or Country <b>United Kingdom</b>
Date <input checked="" type="checkbox"/>	Signature <input checked="" type="checkbox"/>

Fourth Joint Inventor, if any <b>Matthew Roberts</b>	Citizenship <b>Great Britain</b>
Residence Address - Street <b>107 Station Road, Impington</b>	Post Office Address - Street <b>107 Station Road, Impington</b>
City (Zip) <b>Cambridge, CB4 9NP</b>	City (Zip) <b>Cambridge, CB4 9NP</b>
State or Country <b>United Kingdom</b>	State or Country <b>United Kingdom</b>
Date <input checked="" type="checkbox"/>	Signature <input checked="" type="checkbox"/>

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Fifth Joint Inventor, if any <b>Nalinkumar Lallubhai Patel</b>	Citizenship <b>Great Britain</b>
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City (Zip) <b>Cambridge CB4 9HS</b>	City (Zip) <b>Cambridge CB4 9HS</b>
State or Country <b>United Kingdom</b>	State or Country <b>United Kingdom</b>
Date <input checked="" type="checkbox"/>	Signature <input checked="" type="checkbox"/>

Sixth Joint Inventor, if any <b>Clare Louise Foden</b>	Citizenship <b>Great Britain</b>
Residence Address - Street <b>10 George Street</b>	Post Office Address - Street <b>10 George Street</b>
City (Zip) <b>Cambridge CB4 1AJ</b>	City (Zip) <b>Cambridge CB4 1AJ</b>
State or Country <b>United Kingdom</b>	State or Country <b>United Kingdom</b>
Date <input checked="" type="checkbox"/>	Signature <input checked="" type="checkbox"/>

Seventh Joint Inventor, if any <b>Mark Levence Leadbeater</b>	Citizenship <b>Great Britain</b>
Residence Address - Street <b>127 Town Street, Newton</b>	Post Office Address - Street <b>127 Town Street, Newton</b>
City (Zip) <b>Cambridge CB2 5PB</b>	City (Zip) <b>Cambridge CB2 5PE</b>
State or Country <b>United Kingdom</b>	State or Country <b>United Kingdom</b>
Date <input checked="" type="checkbox"/>	Signature <input checked="" type="checkbox"/>

Eighth Joint Inventor, if any <b>Daniel Alan Forsythe</b>	Citizenship <b>Great Britain</b>
Residence Address - Street <b>22 St. Lukes Street</b>	Post Office Address - Street <b>22 St. Lukes Street</b>
City (Zip) <b>Cambridge CB4 3DA</b>	City (Zip) <b>Cambridge CB4 3DA</b>
State or Country <b>United Kingdom</b>	State or Country <b>United Kingdom</b>
Date <input checked="" type="checkbox"/>	Signature <input checked="" type="checkbox"/>

Ninth Joint Inventor, if any <b>Robert Sidney Archer</b>	Citizenship <b>Great Britain</b>
Residence Address - Street <b>20 Whiteshot Way, Saffron Walden</b>	Post Office Address - Street <b>20 Whiteshot Way, Saffron Walden</b>
City (Zip) <b>Essex CB10 2AW</b>	City (Zip) <b>Essex CB10 2AW</b>
State or Country <b>United Kingdom</b>	State or Country <b>United Kingdom</b>
Date <input checked="" type="checkbox"/>	Signature <input checked="" type="checkbox"/>

Tenth Joint Inventor, if any <b>Nicholas de Brissac Baynes</b>	Citizenship <b>Great Britain</b>
Residence Address - Street <b>2, The Beeches, High St., Stetchworth</b>	Post Office Address - Street <b>2, The Beeches, High St., Stetchworth</b>
City (Zip) <b>Newmarket CB8 9TJ</b>	City (Zip) <b>Newmarket CB8 9TJ</b>
State or Country <b>United Kingdom</b>	State or Country <b>United Kingdom</b>
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Eleventh Joint Inventor, if any Nathan Luke Phillips	Citizenship Great Britain
Residence Address - Street 12 Priory Road	Post Office Address - Street 12 Priory Road
City (Zip) Cambridge CB5 8HT	City (Zip) Cambridge CB5 8HT
State or Country United Kingdom	State or Country United Kingdom
Date <input checked="" type="checkbox"/>	Signature <input checked="" type="checkbox"/>

Twelfth Joint Inventor, if any Anil Raj Duggal	Citizenship United States
Residence Address - Street 2322 Algonquin Road	Post Office Address - Street 2322 Algonquin Road
City (Zip) Niskayuna 12309	City (Zip) Niskayuna 12309
State or Country New York	State or Country New York
Date <input checked="" type="checkbox"/>	Signature <input checked="" type="checkbox"/>

Thirteenth Joint Inventor, if any Jie Liu	Citizenship United States
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City (Zip) Niskayuna 12309	City (Zip) Niskayuna 12309
State or Country New York	State or Country New York
Date <input checked="" type="checkbox"/>	Signature <input checked="" type="checkbox"/>

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# APPLICABLE RULES AND STATUTES

## 37 CFR 1.56. DUTY OF DISCLOSURE - INFORMATION MATERIAL TO PATENTABILITY (Applicable Portion)

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believe any pending claim patentability defines, to make sure that any material information contained therein is disclosed to the Office.

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- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of the application for patent in the United States, or

- (c) he has abandoned the invention, or
- (d) the invention was first patented or caused to be patented, or was the subject of an inventor's certificate, by the applicant or his legal representatives or assigns in a foreign country prior to the date of the application for patent in this country on an application for patent or inventor's certificate filed more than twelve months before the filing of the application in the United States, or

- (e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraph (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent, or

- (f) he did not himself invent the subject matter sought to be patented, or

- (g) before the applicant's invention thereof the invention was made in this country by another who had not abandoned, suppressed, or concealed it. In determining priority of invention there shall be considered not only the respective dates of conception and reduction to practice of the invention, but also the reasonable diligence of one who was first to conceive and last to reduce to practice, from a time prior to conception by the other.

## 35 U.S.C. 103. CONDITIONS FOR PATENTABILITY; NON-OBVIOUS SUBJECT MATTER (Applicable Portion)

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## 35 U.S.C. 112. SPECIFICATION (Applicable Portion)

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same, and shall set forth the best mode contemplated by the inventor of carrying out his invention.

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**DECLARATION FOR PATENT APPLICATION AND POWER OF ATTORNEY**

As a below named inventor, I hereby declare that my residence, post office address and citizenship are as stated below next to my name; I believe that I am an original, first and joint inventor of the subject matter which is claimed and for which a patent is sought on the invention entitled "OPTICAL DEVICE," the specification of which was filed on September 3, 2003, as International Application No. PCT/GB2003/003960 (U.S. Serial No. 10/526,804), and was amended on March 3, 2005. I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above. I acknowledge the duty to disclose to the Patent and Trademark Office all information known to me to be material to patentability as defined in 37 C.F.R. §1.56.

I hereby claim foreign priority benefits under 35 U.S.C. §119 of any foreign application for patent or inventor's certificate or of any international application designating at least one country other than the United States of America listed below and have also identified below any foreign application for patent or inventor's certificate or any international application designating at least one country other than the United States of America filed by me on the same subject matter having a filing date before that of the application of which priority is claimed:

Priority Claimed

0220404.8  
(Application Serial Number)

United Kingdom  
(Country)

September 3, 2002  
(Day/Month/Year Filed)

☒ Yes ☐ No

I hereby claim the benefit under 35 U.S.C. §119(e) of any United States provisional application(s) listed below:

60/480,502  
(Application Serial Number)

20 June 2003  
(Day/Month/Year Filed)

I hereby claim the benefit under 35 U.S.C. §120 of any United States application or international application designating the United States of America listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior application in the manner provided by the first paragraph of 35 U.S.C. §112, I acknowledge the duty to disclose to the Office all information known to me to be material to patentability as defined in 37 C.F.R. §1.56 which occurred between the filing date of the prior application and the national or international filing date of this application:

\_\_\_\_\_  
(Application Serial Number)

\_\_\_\_\_  
(Day/Month/Year Filed)

\_\_\_\_\_  
(Status-Patented, Pending or Abandoned)

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under 18 U.S.C. §1001 and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

**BEST AVAILABLE COPY**

**POWER OF ATTORNEY:** I hereby appoint as my attorneys, with full powers of substitution and revocation, to prosecute this application and transact all business in the Patent and Trademark Office connected therewith:

All practitioners at Customer Number 04743

Send correspondence to: James P. Zeller

FIRM NAME	PHONE NO.	STREET	CITY & STATE	ZIP CODE
Marshall, Gerstein & Sarin LLP	312-474-6300	6300 Sears Tower 233 South Wacker Drive	Chicago, Illinois	60606-6357

Full Name of First or Sole Inventor Craig Edward Murphy	Citizenship Great Britain
Residence Address - Street 14 Kirkby Close	Post Office Address - Street 14 Kirkby Close
City (Zip) Cambridge CB4 1XP	City (Zip) Cambridge CB4 1XP
State or Country United Kingdom	State or Country United Kingdom
Date <input checked="" type="checkbox"/>	Signature <input checked="" type="checkbox"/>

Second Joint Inventor, if any Salvatore Cina	Citizenship Italy
Residence Address - Street 29 Av. Janvier	Post Office Address - Street 29 Av. Janvier
City (Zip) 35000 Rennes	City (Zip) 35000 Rennes
State or Country France	State or Country France
Date <input checked="" type="checkbox"/>	Signature <input checked="" type="checkbox"/>

Third Joint Inventor, if any Timothy Butler	Citizenship Great Britain
Residence Address - Street 5 Grange Gardens, Grange Road	Post Office Address - Street 5 Grange Gardens, Grange Road
City (Zip) Cambridge CB3 9AT	City (Zip) Cambridge CB3 9AT
State or Country United Kingdom	State or Country United Kingdom
Date <input checked="" type="checkbox"/>	Signature <input checked="" type="checkbox"/>

Fourth Joint Inventor, if any Matthew Roberts	Citizenship Great Britain
Residence Address - Street 107 Station Road, Impington	Post Office Address - Street 107 Station Road, Impington
City (Zip) Cambridge, CB4 9NP	City (Zip) Cambridge, CB4 9NP
State or Country United Kingdom	State or Country United Kingdom
Date <input checked="" type="checkbox"/>	Signature <input checked="" type="checkbox"/>

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Fifth Joint Inventor, if any <b>Nalinkumar Lallubhai Patel</b>	Citizenship <b>Great Britain</b>
Residence Address - Street <b>82 Mill Lane, Impington</b>	Post Office Address - Street <b>82 Mill Lane, Impington</b>
City (Zip) <b>Cambridge CB4 9HS</b>	City (Zip) <b>Cambridge CB4 9HS</b>
State or Country <b>United Kingdom</b>	State or Country <b>United Kingdom</b>
Date <input checked="" type="checkbox"/>	Signature <input checked="" type="checkbox"/>

Sixth Joint Inventor, if any <b>Clare Louise Foden</b>	Citizenship <b>Great Britain</b>
Residence Address - Street <b>10 George Street</b>	Post Office Address - Street <b>10 George Street</b>
City (Zip) <b>Cambridge CB4 1AJ</b>	City (Zip) <b>Cambridge CB4 1AJ</b>
State or Country <b>United Kingdom</b>	State or Country <b>United Kingdom</b>
Date <input checked="" type="checkbox"/>	Signature <input checked="" type="checkbox"/>

Seventh Joint Inventor, if any <b>Mark Leverage Leadbeater</b>	Citizenship <b>Great Britain</b>
Residence Address - Street <b>127 Town Street, Newton</b>	Post Office Address - Street <b>127 Town Street, Newton</b>
City (Zip) <b>Cambridge CB2 5PE</b>	City (Zip) <b>Cambridge CB2 5PE</b>
State or Country <b>United Kingdom</b>	State or Country <b>United Kingdom</b>
Date <input checked="" type="checkbox"/>	Signature <input checked="" type="checkbox"/>

Eighth Joint Inventor, if any <b>Daniel Alan Forsythe</b>	Citizenship <b>Great Britain</b>
Residence Address - Street <b>22 St. Lukes Street</b>	Post Office Address - Street <b>22 St. Lukes Street</b>
City (Zip) <b>Cambridge CB4 3DA</b>	City (Zip) <b>Cambridge CB4 3DA</b>
State or Country <b>United Kingdom</b>	State or Country <b>United Kingdom</b>
Date <input checked="" type="checkbox"/>	Signature <input checked="" type="checkbox"/>

Ninth Joint Inventor, if any <b>Robert Sidney Aroher</b>	Citizenship <b>Great Britain</b>
Residence Address - Street <b>20 Whiteshot Way, Saffron Walden</b>	Post Office Address - Street <b>20 Whiteshot Way, Saffron Walden</b>
City (Zip) <b>Essex CB10 2AW</b>	City (Zip) <b>Essex CB10 2AW</b>
State or Country <b>United Kingdom</b>	State or Country <b>United Kingdom</b>
Date <input checked="" type="checkbox"/>	Signature <input checked="" type="checkbox"/>

Tenth Joint Inventor, if any <b>Nicholas de Brissac Baynes</b>	Citizenship <b>Great Britain</b>
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State or Country <b>United Kingdom</b>	State or Country <b>United Kingdom</b>
Date <input checked="" type="checkbox"/> <b>30<sup>th</sup> August 2005</b>	Signature <input checked="" type="checkbox"/> <b>N de Brissac Baynes</b>

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Eleventh Joint Inventor, if any Nathan Luke Phillips	Citizenship Great Britain
Residence Address - Street 12 Priory Road	Post Office Address - Street 12 Priory Road
City (Zip) Cambridge CB5 8HT	City (Zip) Cambridge CB5 8HT
State or Country United Kingdom	State or Country United Kingdom
Date <input checked="" type="checkbox"/>	Signature <input checked="" type="checkbox"/>

Twelfth Joint Inventor, if any Anil Raj Duggal	Citizenship United States
Residence Address - Street 2322 Algonquin Road	Post Office Address - Street 2322 Algonquin Road
City (Zip) Niskayuna 12309	City (Zip) Niskayuna 12309
State or Country New York	State or Country New York
Date <input checked="" type="checkbox"/>	Signature <input checked="" type="checkbox"/>

Thirteenth Joint Inventor, if any Jie Liu	Citizenship United States
Residence Address - Street 1265 Sagemont Court	Post Office Address - Street 1265 Sagemont Court
City (Zip) Niskayuna 12309	City (Zip) Niskayuna 12309
State or Country New York	State or Country New York
Date <input checked="" type="checkbox"/>	Signature <input checked="" type="checkbox"/>

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# APPLICABLE RULES AND STATUTES

## 37 CFR 1.56. DUTY OF DISCLOSURE - INFORMATION MATERIAL TO PATENTABILITY (Applicable Portion)

(a) A patent by its very nature is affected with a public interest. The public interest is best served, and the most effective patent examination occurs when, at the time an application is being examined, the Office is aware of and evaluates the teachings of all information material to patentability. Each individual associated with the filing and prosecution of a patent application has a duty of candor and good faith in dealing with the Office, which includes a duty to disclose to the Office all information known to that individual to be material to patentability as defined in this section. The duty to disclose information exists with respect to each pending claim until the claim is canceled or withdrawn from consideration, or the application becomes abandoned. Information material to the patentability of a claim that is canceled or withdrawn from consideration need not be submitted if the information is not material to the patentability of any claim remaining under consideration in the application. There is no duty to submit information which is not material to the patentability of any existing claim. The duty to disclose all information known to be material to patentability is deemed to be satisfied if all information known to be material to patentability of any claim issued in a patent was cited by the Office or submitted to the Office in the manner prescribed by §§ 1.97(b)-(d) and 1.98. However, no patent will be granted on an application in connection with which fraud on the Office was practiced or attempted or the duty of disclosure was violated through bad faith or intentional misconduct. The Office encourages applicants to carefully examine:

- (1) prior art cited in search reports of a foreign patent office in a counterpart application, and
- (2) the closest information over which individuals associated with the filing or prosecution of a patent application believe any pending claim patentability defines, to make sure that any material information contained therein is disclosed to the Office.

Information relating to the following factual situations enumerated in 35 USC 102 and 103 may be considered material under 37 CFR 1.56(a).

## 35 U.S.C. 102. CONDITIONS FOR PATENTABILITY: NOVELTY AND LOSS OF RIGHT TO PATENT

A person shall be entitled to a patent unless —

- (a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for patent, or
- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of this application for patent in the United States, or
- (c) he has abandoned the invention, or
- (d) the invention was first patented or caused to be patented, or was the subject of an inventor's certificate, by the applicant or his legal representatives or assigns in a foreign country prior to the date of the application for patent in this country on an application for patent or inventor's certificate filed more than twelve months before the filing of the application in the United States, or
- (e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraph (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent, or
- (f) he did not himself invent the subject matter sought to be patented, or
- (g) before the applicant's invention thereof the invention was made in this country by another who had not abandoned, suppressed, or concealed it. In determining priority of invention there shall be considered not only the respective dates of conception and reduction to practice of the invention, but also the reasonable diligence of one who was first to conceive and last to reduce to practice, from a time prior to conception by the other.

## 35 U.S.C. 103. CONDITIONS FOR PATENTABILITY: NON-OBVIOUS SUBJECT MATTER (Applicable Portion)

A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Subject matter developed by another person, which qualifies as prior art only under subsection (f) or (g) of section 102 of this title, shall not preclude patentability under this section where the subject matter and the claimed invention were, at the time the invention was made, owned by the same person or subject to an obligation of assignment to the same person.

## 35 U.S.C. 112. SPECIFICATION (Applicable Portion)

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same, and shall set forth the best mode contemplated by the inventor of carrying out his invention.

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10/526804

804  
Att. Docket No. 29610/CDT322A

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POWER OF ATTORNEY: I hereby appoint as my attorneys, with full powers of substitution and revocation, to prosecute this application and transact all business in the Patent and Trademark Office connected therewith:

All practitioners at Customer Number 04743

Send correspondence to: James P. Zellar

<b>FIRM NAME</b>	<b>PHONE NO.</b>	<b>STREET</b>	<b>CITY &amp; STATE</b>	<b>ZIP CODE</b>
Marshall, Gerstein & Borun LLP	312-474-6300	6300 Sears Tower 233 South Wacker Drive	Chicago, Illinois	60606-6357

Full Name of Firm or Sole Inventor Craig Edward Murphy	Citizenship Great Britain
Residence Address - Street 14 Kirkby Close	Post Office Address - Street 14 Kirkby Close
City (Zip) Cambridge CB4 1XP	City (Zip) Cambridge CB4 1XP
State or Country United Kingdom	State or Country United Kingdom
Date <input checked="" type="checkbox"/>	Signature <input checked="" type="checkbox"/>

Second Joint Inventor, if any Salvatore Cina	Citizenship Italy
Residence Address - Street 29 Av. Janvier	Post Office Address - Street 29 Av. Janvier
City (Zip) 35000 Rennes	City (Zip) 35000 Rennes
State or Country France	State or Country France
Date <input checked="" type="checkbox"/>	Signature <input checked="" type="checkbox"/>

Third Joint Inventor, if any Timothy Butler	Citizenship Great Britain
Residence Address - Street 5 Grange Gardens, Grange Road	Post Office Address - Street 5 Grange Gardens, Grange Road
City (Zip) Cambridge CB3 9AT	City (Zip) Cambridge CB3 9AT
State or Country United Kingdom	State or Country United Kingdom
Date <input checked="" type="checkbox"/>	Signature <input checked="" type="checkbox"/>

Fourth Joint Inventor, if any Matthew Roberts	Citizenship Great Britain
Residence Address - Street 107 Station Road, Impington	Post Office Address - Street 107 Station Road, Impington
City (Zip) Cambridge, CB4 9NP	City (Zip) Cambridge, CB4 9NP
State or Country United Kingdom	State or Country United Kingdom
Date <input checked="" type="checkbox"/>	Signature <input checked="" type="checkbox"/>

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Fifth Joint Inventor, if any <b>Nalinkumar Lalubhai Patel</b>	Citizenship <b>Great Britain</b>
Residence Address - Street <b>82 Mill Lane, Impington</b>	Post Office Address - Street <b>82 Mill Lane, Impington</b>
City (Zip) <b>Cambridge CB4 9HS</b>	City (Zip) <b>Cambridge CB4 9HS</b>
State or Country <b>United Kingdom</b>	State or Country <b>United Kingdom</b>
Date <input checked="" type="checkbox"/>	Signature <input checked="" type="checkbox"/>

Sixth Joint Inventor, if any <b>Clare Louise Foden</b>	Citizenship <b>Great Britain</b>
Residence Address - Street <b>10 George Street</b>	Post Office Address - Street <b>10 George Street</b>
City (Zip) <b>Cambridge CB4 1AJ</b>	City (Zip) <b>Cambridge CB4 1AJ</b>
State or Country <b>United Kingdom</b>	State or Country <b>United Kingdom</b>
Date <input checked="" type="checkbox"/>	Signature <input checked="" type="checkbox"/>

7-60

Seventh Joint Inventor, if any <b>Mark Levence Leadbeater</b>	Citizenship <b>Great Britain</b>
Residence Address - Street <b>127 Town Street, Newton</b>	Post Office Address - Street <b>127 Town Street, Newton</b>
City (Zip) <b>Cambridge CB2 5PE</b> <i>CBX</i>	City (Zip) <b>Cambridge CB2 5PE</b>
State or Country <b>United Kingdom</b>	State or Country <b>United Kingdom</b>
Date <input checked="" type="checkbox"/> <i>01/09/05</i>	Signature <input checked="" type="checkbox"/> <i>[Signature]</i>

Eighth Joint Inventor, if any <b>Daniel Alan Forsythe</b>	Citizenship <b>Great Britain</b>
Residence Address - Street <b>22 St. Lukes Street</b>	Post Office Address - Street <b>22 St. Lukes Street</b>
City (Zip) <b>Cambridge CB4 3DA</b>	City (Zip) <b>Cambridge CB4 3DA</b>
State or Country <b>United Kingdom</b>	State or Country <b>United Kingdom</b>
Date <input checked="" type="checkbox"/>	Signature <input checked="" type="checkbox"/>

Ninth Joint Inventor, if any <b>Robert Sidney Archer</b>	Citizenship <b>Great Britain</b>
Residence Address - Street <b>20 Whiteshot Way, Saffron Walden</b>	Post Office Address - Street <b>20 Whiteshot Way, Saffron Walden</b>
City (Zip) <b>Essex CB10 2AW</b>	City (Zip) <b>Essex CB10 2AW</b>
State or Country <b>United Kingdom</b>	State or Country <b>United Kingdom</b>
Date <input checked="" type="checkbox"/>	Signature <input checked="" type="checkbox"/>

Tenth Joint Inventor, if any <b>Nicholas de Brissac Haynes</b>	Citizenship <b>Great Britain</b>
Residence Address - Street <b>2, The Beeches, High St., Stetchworth</b>	Post Office Address - Street <b>2, The Beeches, High St., Stetchworth</b>
City (Zip) <b>Newmarket CB8 9TJ</b>	City (Zip) <b>Newmarket CB8 9TJ</b>
State or Country <b>United Kingdom</b>	State or Country <b>United Kingdom</b>
Date <input checked="" type="checkbox"/>	Signature <input checked="" type="checkbox"/>

Eleventh Joint Inventor, if any <b>Nathan Luke Phillips</b>	Citizenship <b>Great Britain</b>
Residence Address - Street <b>12 Priory Road</b>	Post Office Address - Street <b>12 Priory Road</b>
City (Zip) <b>Cambridge CB5 8HT</b>	City (Zip) <b>Cambridge CB5 8HT</b>
State or Country <b>United Kingdom</b>	State or Country <b>United Kingdom</b>
Date <input checked="" type="checkbox"/>	Signature <input checked="" type="checkbox"/>

Twelfth Joint Inventor, if any <b>Anil Raj Duggal</b>	Citizenship <b>United States</b>
Residence Address - Street <b>2322 Algonquin Road</b>	Post Office Address - Street <b>2322 Algonquin Road</b>
City (Zip) <b>Niskayuna 12309</b>	City (Zip) <b>Niskayuna 12309</b>
State or Country <b>New York</b>	State or Country <b>New York</b>
Date <input checked="" type="checkbox"/>	Signature <input checked="" type="checkbox"/>

Thirteenth Joint Inventor, if any <b>Jie Liu</b>	Citizenship <b>United States</b>
Residence Address - Street <b>1265 Sagemont Court</b>	Post Office Address - Street <b>1265 Sagemont Court</b>
City (Zip) <b>Niskayuna 12309</b>	City (Zip) <b>Niskayuna 12309</b>
State or Country <b>New York</b>	State or Country <b>New York</b>
Date <input checked="" type="checkbox"/>	Signature <input checked="" type="checkbox"/>

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**APPLICABLE RULES AND STATUTES****37 CFR 1.56. DUTY OF DISCLOSURE - INFORMATION MATERIAL TO PATENTABILITY (Applicable Portion)**

(a) A patent by its very nature is affected with a public interest. The public interest is best served, and the most effective patent examination occurs when, at the time an application is being examined, the Office is aware of and evaluates the teachings of all information material to patentability. Each individual associated with the filing and prosecution of a patent application has a duty of candor and good faith in dealing with the Office, which includes a duty to disclose to the Office all information known to that individual to be material to patentability as defined in this section. The duty to disclose information exists with respect to each pending claim until the claim is canceled or withdrawn from consideration, or the application becomes abandoned. Information material to the patentability of a claim that is canceled or withdrawn from consideration need not be submitted if the information is not material to the patentability of any claim remaining under consideration in the application. There is no duty to submit information which is not material to the patentability of any existing claim. The duty to disclose all information known to be material to patentability is deemed to be satisfied if all information known to be material to patentability of any claim issued in a patent was cited by the Office or submitted to the Office in the manner prescribed by §§ 1.97(b)-(d) and 1.98. However, no patent will be granted on an application in connection with which fraud on the Office was practiced or attempted or the duty of disclosure was violated through bad faith or intentional misconduct. The Office encourages applicants to carefully examine:

(1) prior art cited in search reports of a foreign patent office in a counterpart application, and

(2) the closest information over which individuals associated with the filing or prosecution of a patent application believe any pending claim patentability defines, to make sure that any material information contained therein is disclosed to the Office.

Information relating to the following factual situations enumerated in 35 USC 102 and 103 may be considered material under 37 CFR 1.56(a).

**35 U.S.C. 102. CONDITIONS FOR PATENTABILITY: NOVELTY AND LOSS OF RIGHT TO PATENT**

A person shall be entitled to a patent unless -

(a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for patent, or

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of the application for patent in the United States, or

(c) he has abandoned the invention, or

(d) the invention was first patented or caused to be patented, or was the subject of an inventor's certificate, by the applicant or his legal representatives or assigns in a foreign country prior to the date of the application for patent in this country on an application for patent or inventor's certificate filed more than twelve months before the filing of the application in the United States, or

(e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraph (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent, or

(f) he did not himself invent the subject matter sought to be patented, or

(g) before the applicant's invention thereof the invention was made in this country by another who had not abandoned, suppressed, or concealed it. In determining priority of invention there shall be considered not only the respective dates of conception and reduction to practice of the invention, but also the reasonable diligence of one who was first to conceive and last to reduce to practice, from a time prior to conception by the other.

**35 U.S.C. 103. CONDITIONS FOR PATENTABILITY: NON-OBVIOUS SUBJECT MATTER (Applicable Portion)**

A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Subject matter developed by another person, which qualifies as prior art only under subsection (f) or (g) of section 102 of this title, shall not preclude patentability under this section where the subject matter and the claimed invention were, at the time the invention was made, owned by the same person or subject to an obligation of assignment to the same person.

**35 U.S.C. 112. SPECIFICATION (Applicable Portion)**

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same, and shall set forth the best mode contemplated by the inventor of carrying out his invention.

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## DECLARATION FOR PATENT APPLICATION AND POWER OF ATTORNEY

As a below named inventor, I hereby declare that my residence, post office address and citizenship are as stated below next to my name; I believe that I am an original, first and joint inventor of the subject matter which is claimed and for which a patent is sought on the invention entitled "OPTICAL DEVICE," the specification of which was filed on September 3, 2003, as International Application No. PCT/GB2003/003960 (U.S. Serial No. 10/526,804), and was amended on March 3, 2005. I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above. I acknowledge the duty to disclose to the Patent and Trademark Office all information known to me to be material to patentability as defined in 37 C.F.R. §1.56.

I hereby claim foreign priority benefits under 35 U.S.C. §119 of any foreign application for patent or inventor's certificate or of any international application designating at least one country other than the United States of America listed below and have also identified below any foreign application for patent or inventor's certificate or any international application designating at least one country other than the United States of America filed by me on the same subject matter having a filing date before that of the application of which priority is claimed:

**Priority Claimed**

0220404.B  
(Application Serial Number)

United Kingdom  
(Country)

September 3, 2002  
(Day/Month/Year Filed)

☒ Yes ☐ No

I hereby claim the benefit under 35 U.S.C. §119(e) of any United States provisional application(s) listed below:

**60/480.502**  
**(Application Serial Number)**

20 June 2003  
(Day/Month/Year Filed)

I hereby claim the benefit under 35 U.S.C. § 120 of any United States application or international application designating the United States of America listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior application in the manner provided by the first paragraph of 35 U.S.C. § 112, I acknowledge the duty to disclose to the Office all information known to me to be material to patentability as defined in 37 C.F.R. § 1.56 which occurred between the filing date of the prior application and the national or international filing date of this application:

(Application Serial Number)

(Day/Month/Year Filed)

(Status-Patented, Pending or Abandoned)

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under 18 U.S.C. §1001 and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

**BEST AVAILABLE COPY**

**POWER OF ATTORNEY:** I hereby appoint as my attorneys, with full powers of substitution and revocation, to prosecute this application and transact all business in the Patent and Trademark Office connected therewith:

All practitioners at Customer Number 04743

Send correspondence to: James P. Zeller

<b>FIRM NAME</b>	<b>PHONE NO.</b>	<b>STREET</b>	<b>CITY &amp; STATE</b>	<b>ZIP CODE</b>
Marshall, Gerslein & Borun LLP	312-474-6300	6300 Sears Tower 233 South Wacker Drive	Chicago, Illinois	60606-6357

Full Name of First or Sole Inventor <b>Craig Edward Murphy</b>	Citizenship <b>Great Britain</b>
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City (Zip) <b>Cambridge CB4 1XP</b>	City (Zip) <b>Cambridge CB4 1XP</b>
State or Country <b>United Kingdom</b>	State or Country <b>United Kingdom</b>
Date <input checked="" type="checkbox"/>	Signature <input checked="" type="checkbox"/>

Second Joint Inventor, if any <b>Salvatore Cina</b>	Citizenship <b>Italy</b>
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City (Zip) <b>35000 Rennes</b>	City (Zip) <b>35000 Rennes</b>
State or Country <b>France</b>	State or Country <b>France</b>
Date <input checked="" type="checkbox"/>	Signature <input checked="" type="checkbox"/>

Third Joint Inventor, if any <b>Timothy Butler</b>	Citizenship <b>Great Britain</b>
Residence Address - Street <b>5 Grange Gardens, Grange Road</b>	Post Office Address - Street <b>5 Grange Gardens, Grange Road</b>
City (Zip) <b>Cambridge CB3 9AT</b>	City (Zip) <b>Cambridge CB3 9AT</b>
State or Country <b>United Kingdom</b>	State or Country <b>United Kingdom</b>
Date <input checked="" type="checkbox"/> <b>29-08-05</b>	Signature <input checked="" type="checkbox"/> <b>Tim P. Butler</b>

Fourth Joint Inventor, if any <b>Matthew Roberts</b>	Citizenship <b>Great Britain</b>
Residence Address - Street <b>107 Station Road, Impington</b>	Post Office Address - Street <b>107 Station Road, Impington</b>
City (Zip) <b>Cambridge, CB4 9NP</b>	City (Zip) <b>Cambridge, CB4 9NP</b>
State or Country <b>United Kingdom</b>	State or Country <b>United Kingdom</b>
Date <input checked="" type="checkbox"/>	Signature <input checked="" type="checkbox"/>

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Fifth Joint Inventor, if any <b>Nalinkumar Lallubhai Patel</b>	Citizenship <b>Great Britain</b>
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City (Zip) <b>Cambridge CB4 9HS</b>	City (Zip) <b>Cambridge CB4 9HS</b>
State or Country <b>United Kingdom</b>	State or Country <b>United Kingdom</b>
Date <input checked="" type="checkbox"/>	Signature <input checked="" type="checkbox"/>

Sixth Joint Inventor, if any <b>Clare Louise Foden</b>	Citizenship <b>Great Britain</b>
Residence Address - Street <b>10 George Street</b>	Post Office Address - Street <b>10 George Street</b>
City (Zip) <b>Cambridge CB4 1AJ</b>	City (Zip) <b>Cambridge CB4 1AJ</b>
State or Country <b>United Kingdom</b>	State or Country <b>United Kingdom</b>
Date <input checked="" type="checkbox"/>	Signature <input checked="" type="checkbox"/>

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**APPLICABLE RULES AND STATUTES****37 CFR 1.56. DUTY OF DISCLOSURE - INFORMATION MATERIAL TO PATENTABILITY (Applicable Portion)**

(a) A patent by its very nature is affected with a public interest. The public interest is best served, and the most effective patent examination occurs when, at the time an application is being examined, the Office is aware of and evaluates the teachings of all information material to patentability. Each individual associated with the filing and prosecution of a patent application has a duty of candor and good faith in dealing with the Office, which includes a duty to disclose to the Office all information known to that individual to be material to patentability as defined in this section. The duty to disclose information exists with respect to each pending claim until the claim is canceled or withdrawn from consideration, or the application becomes abandoned. Information material to the patentability of a claim that is canceled or withdrawn from consideration need not be submitted if the information is not material to the patentability of any claim remaining under consideration in the application. There is no duty to submit information which is not material to the patentability of any existing claim. The duty to disclose all information known to be material to patentability is deemed to be satisfied if all information known to be material to patentability of any claim issued in a patent was cited by the Office or submitted to the Office in the manner prescribed by §§ 1.97(b)-(d) and 1.98. However, no patent will be granted on an application in connection with which fraud on the Office was practiced or attempted or the duty of disclosure was violated through bad faith or intentional misconduct. The Office encourages applicants to carefully examine:

- (1) prior art cited in search reports of a foreign patent office in a counterpart application, and
- (2) the closest information over which individuals associated with the filing or prosecution of a patent application believe any pending claim patentability defines, to make sure that any material information contained therein is disclosed to the Office.

Information relating to the following factual situations enumerated in 35 USC 102 and 103 may be considered material under 37 CFR 1.56(a).

**35 U.S.C. 102. CONDITIONS FOR PATENTABILITY: NOVELTY AND LOSS OF RIGHT TO PATENT**

A person shall be entitled to a patent unless --

- (a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for patent, or
- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of the application for patent in the United States, or
- (c) he has abandoned the invention, or
- (d) the invention was first patented or caused to be patented, or was the subject of an inventor's certificate, by the applicant or his legal representatives or assigns in a foreign country prior to the date of the application for patent in this country on an application for patent or inventor's certificate filed more than twelve months before the filing of the application in the United States, or
- (e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraph (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent, or
- (f) he did not himself invent the subject matter sought to be patented, or
- (g) before the applicant's invention thereof the invention was made in this country by another who had not abandoned, suppressed, or concealed it. In determining priority of invention there shall be considered not only the respective dates of conception and reduction to practice of the invention, but also the reasonable diligence of one who was first to conceive and last to reduce to practice, from a time prior to conception by the other.

**35 U.S.C. 103. CONDITIONS FOR PATENTABILITY: NON-OBVIOUS SUBJECT MATTER (Applicable Portion)**

A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Subject matter developed by another person, which qualifies as prior art only under subsection (f) or (g) of section 102 of this title, shall not preclude patentability under this section where the subject matter and the claimed invention were, at the time the invention was made, owned by the same person or subject to an obligation of assignment to the same person.

**35 U.S.C. 112. SPECIFICATION (Applicable Portion)**

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same, and shall set forth the best mode contemplated by the inventor of carrying out his invention.

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POWER OF ATTORNEY: I hereby appoint as my attorneys, with full powers of substitution and revocation, to prosecute this application and transact all business in the Patent and Trademark Office connected therewith:

All practitioners at Customer Number 04743

Send correspondence to: James P. Zeller

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## APPLICABLE RULES AND STATUTES

### 37 CFR 1.56. DUTY OF DISCLOSURE - INFORMATION MATERIAL TO PATENTABILITY (Applicable Portion)

(a) A patent by its very nature is affected with a public interest. The public interest is best served, and the most effective patent examination occurs when, at the time an application is being examined, the Office is aware of and evaluates the teachings of all information material to patentability. Each individual associated with the filing and prosecution of a patent application has a duty of candor and good faith in dealing with the Office, which includes a duty to disclose to the Office all information known to that individual to be material to patentability as defined in this section. The duty to disclose information exists with respect to each pending claim until the claim is canceled or withdrawn from consideration, or the application becomes abandoned. Information material to the patentability of a claim that is canceled or withdrawn from consideration need not be submitted if the information is not material to the patentability of any claim remaining under consideration in the application. There is no duty to submit information which is not material to the patentability of any existing claim. The duty to disclose all information known to be material to patentability is deemed to be satisfied if all information known to be material to patentability of any claim issued in a patent was cited by the Office or submitted to the Office in the manner prescribed by §§ 1.97(b)-(d) and 1.98. However, no patent will be granted on an application in connection with which fraud on the Office was practiced or attempted or the duty of disclosure was violated through bad faith or intentional misconduct. The Office encourages applicants to carefully examine:

- (1) prior art cited in search reports of a foreign patent office in a counterpart application, and
- (2) the closest information over which individuals associated with the filing or prosecution of a patent application

believe any pending claim patentability defines, to make sure that any material information contained therein is disclosed to the Office.

Information relating to the following factual situations enumerated in 35 USC 102 and 103 may be considered material under 37 CFR 1.56(a).

### 35 U.S.C. 102. CONDITIONS FOR PATENTABILITY: NOVELTY AND LOSS OF RIGHT TO PATENT

A person shall be entitled to a patent unless --

- (a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for patent, or
- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of the application for patent in the United States, or

- (c) he has abandoned the invention, or

(d) the invention was first patented or caused to be patented, or was the subject of an inventor's certificate, by the applicant or his legal representatives or assigns in a foreign country prior to the date of the application for patent in this country on an application for patent or inventor's certificate filed more than twelve months before the filing of the application in the United States, or

- (e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraph (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent, or

- (f) he did not himself invent the subject matter sought to be patented, or

(g) before the applicant's invention thereof the invention was made in this country by another who had not abandoned, suppressed, or concealed it. In determining priority of invention there shall be considered not only the respective dates of conception and reduction to practice of the invention, but also the reasonable diligence of one who was first to conceive and last to reduce to practice, from a time prior to conception by the other.

### 35 U.S.C. 103. CONDITIONS FOR PATENTABILITY; NON-OBVIOUS SUBJECT MATTER (Applicable Portion)

A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Subject matter developed by another person, which qualifies as prior art only under subsection (f) or (g) of section 102 of this title, shall not preclude patentability under this section where the subject matter and the claimed invention were, at the time the invention was made, owned by the same person or subject to an obligation of assignment to the same person.

### 35 U.S.C. 112. SPECIFICATION (Applicable Portion)

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same, and shall set forth the best mode contemplated by the inventor of carrying out his invention.

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